PVM-14M2MDU/20M2MDU Medical Color Video Monitors



Designed specifically for use in medical applications, the M2MD Series Monitors provide the exceptional clarity and color fidelity required for endoscopy, ultrasound, surgical and laboratory microscopy. These medical monitors are UL 2601-1 listed, and offer an HR (High Resolution) Trinitron® picture tube, in addition to compatibility with NTSC and PAL color systems. The design, incorporating knob controls, splash guards and on-screen menus, provides flexibility and easier access to monitor setup.



Features

- High Resolution Trinitron picture tube
- On-screen menu in five languages
- Knob controls of Brightness, Contrast, Aperture, Phase, Chroma and Volume
- IzzitOn® System provides visual recording confirmation
- RGB Split Screen (two RGB inputs)
- Analog RGB, Y/C and composite video
- Auxiliary 8 volt DC output

- Improved contrast CRT
- Improved frequency response
- Splash-proof panels protect against liquids
- Front Panel Cover prevents inadvertent operation
- RS-232C control
- Automatic selection of standard color systems: NTSC and PAL
- UL-2601-1 Listed

Specifications - PVM-14M2MDU/20M2MDU Medical Color Video Monitors

VIDEO SIGNAL

Color System: NTSC, PAL Aperture correction: 0db to ±6.0db

Frequency response: LINE 10.0 Mhz (-3 dB)

RGB 10.0 Mhz (-3 dB) (equivalent to 800 TV Lines)

Synchronization: AFC time constant 1.0 msec.

PICTURE PERFORMANCE

Overscan: 20% overscan of CRT effective screen area 7% overscan of CRT effective screen area Normal scan: 5% underscan of CRT effective screen area Underscan:

600 TV lines at center Picture Tube Resolution:

CRT: P-22 phosphor

6,500K/9,300K,/USER (3200K-10000K, factory Color temperature:

setting is 6500K) PVM-14M2MDU - 13" Maximum Diagonal PVM-20M2MDU - 19" Viewable Area:

INPUTS

Y/C IN: 4-pin mini DIN connector

VIDEO IN: **BNC** connector 1V p-p ±6dB, sync negative

phonojack, -5dBu, more than 47kohms AUDIO IN:

R/R-Y, G/Y, B/B-Y IN: BNC connector R,G,B channels: 0.7 V p-p, ±6dB

0.3 V p-p, negative, 75 ohms terminated Sync on green:

0.7 V p-p, ±6dB R-Y, B-Y channels: 0.7 V p-p, ±6dB Y-channel:

(Standard color bar signal of 75%

chrominance) BNC connector

EXT SYNC IN: Composite sync 4V p-p, ±6dB, negative

OUTPUTS

Y/C OUT: 4-pin mini DIN connector

BNC connector, 75 ohms terminated VIDEO OUT: phonojack, Output level 0.8W AUDIO OUT: R/R-Y, G/Y, B/B-Y OUT: BNC connector, 75 ohms terminated BNC connector, 75 ohms terminated **EXT SYNC OUT:**

REMOTE INPUT

REMOTE: 8-pin mini-DIN connector 9-pin D-SUB connector RS-232C:

GENERAL

Approx. 90W PVM-14M2MDU Power consumption:

Approx. 115W PVM-20M2MDU

120V AC, 50/60 Hz Power requirements:

Operating temperture: 0-35° C -10 to +40° C Storage temperture:

Humidity: 0-90%

Compliance: UL 2601-1 Listed PVM-14M2MDU Dimensions:

Approx. 346x340x430.5mm (w/h/d)

(13 5/8 x 13 1/2 x 16 7/8 inches)

PVM-14M2MDU

Approx. 450x457.5x503mm (w/h/d) (17 3/4 x 18 1/8 x 19 7/8 inches) not including projecting parts and controls

PVM-14M2MDU

Approx. 16.7 kg (36 lb 14 oz.)

PVM-20M2MDU

Approx. 30 kg (66 lb 2 oz.)

3 years parts and labor Warranty:

2 years CRT AC power cord (1) Supplied Accessories:

AC plug holder (1) Splash-proof Panels (2) Front Panel Cover (1) Panel Hinges (2) Remote Control Connector 8-pin mini DIN (1)

Operating instructions (1) Interface Manual for Programmers (1)

IzzitOn System Cable **Optional Accessories:**

Weight:

Pin Assign	nment	(5 (4 (3 (2 (1)) 9 (8 (7 (6)) 6 (1))
Pin No.	DIN 8-pin	D-sub 9-pin
1	REMOTE ON/OFF	-
2	LINE A	TX
3	GND	RX
4	LINE B	-
5	TALLY	GND
6	OVERSCAN	-
7	RGB A	RTS
8	RGB B	CTS
9	-	-



Rear Panel Input/Output Terminals



SONY

Sony Medical Systems Sony Electronics Inc.

1 Sony Drive

Park Ridge, NJ 07656

Telephone: 1-800-535-SONY Technical Support: 1-800-883-6817 http://www.sony.com/medical

